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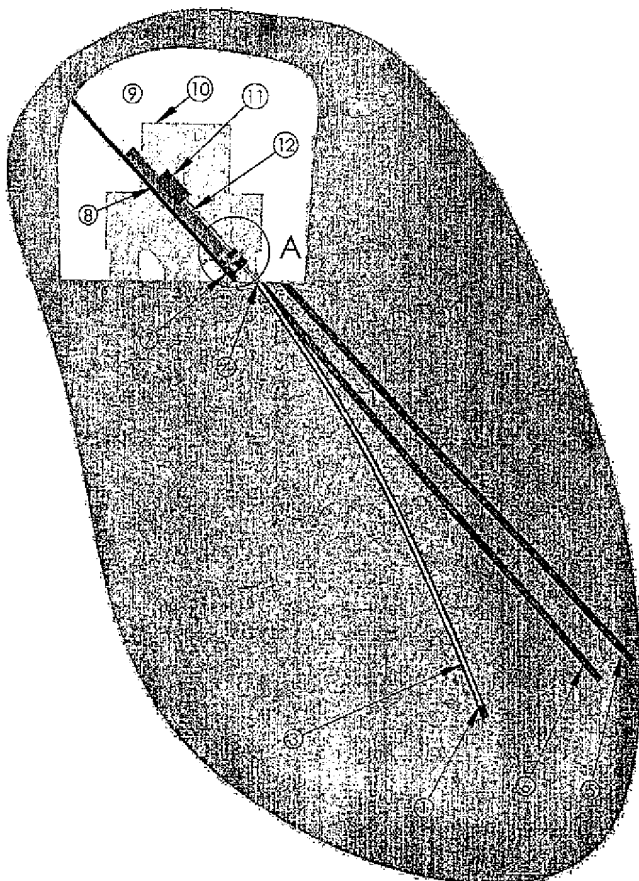
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(54) Title: AUTOMATED DRILL STRING POSITION SURVEY



(57) Abstract: A method of surveying drill holes, typi-
cally for use in underground mining situations where
the holes are bored using a top hammer drill rig (10),
utilises a survey tool located adjacent the drill bit (1)
which is used to log position readings as the drill string
is withdrawn from the hole after the drilling operation.
In this manner, it is possible to log the actual hole bored
by the drill string (3) in real time as the drilling oper-
ation proceeds, and show deviation from intended hole
positions (5) or (6). The survey tool typically includes
an inertial survey package, a power source, and a data
logger with the survey package selected from the group
comprising commercially known inertial known survey
packages, for superior characteristics of resistance to
vibration and impact. The survey tool is maintained in
a sleeping mode while drilling is undertaken, and acti-
vated to provide position data as the drill string is pro-
gressively withdrawn from the actual hole path (3)

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